

Bellwork: 12/5/11

Use substitution:

$$x + y = 12$$

$$x = 12 - y$$

$$x - y = 8$$

$$x = 12 - 2$$

$$x = 10$$

$$(12 - y) - y = 8$$

$$12 - 2y = 8$$

$$-12$$

$$-12$$

$$-2y = -4$$

$$y = 2$$

$$(10, 2)$$

Use elimination:

$$13x - 2y = 10$$

$$(2, 8)$$

$$2(8x + y) = (24)2$$

$$13x + 2y = 10$$

$$16x + 2y = 48$$

$$29x = 58$$

$$x = 2$$

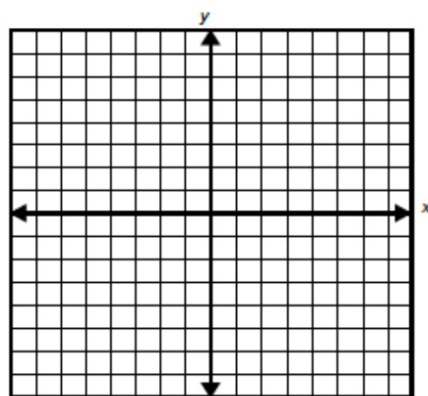
$$8(2) + y = 24$$

$$16 + y = 24$$

$$y = 8$$

Use the graphing method to solve.

$$1) \begin{cases} 2x - y = -1 \\ 3x + y = 6 \end{cases}$$



Use the substitution method.

$$2) \begin{cases} x + 2y = 7 \\ 2x - y = 4 \end{cases}$$

Use the elimination method to solve the system. Show all work.

$$3) \begin{cases} 4a - 5b = 10 \\ 2a - 5b = 0 \end{cases}$$

Use the elimination method to solve the system. Show all work.

$$4) \begin{cases} 2b = 2a + b - 4 \\ 3a = 3b - a + 2 \end{cases}$$

$$5) \begin{cases} 2m + 3n = 6 \\ m + 2n = 10 \end{cases}$$

$$6) \begin{cases} 2x - y = 8 \\ x - 8y = 4 \end{cases}$$

$$7) \begin{cases} 3x + y = 6 \\ 2x - y = -1 \end{cases}$$



$$8) \begin{cases} 5p + 12q = 13 \\ 3p + 4q = 3 \end{cases}$$

Choose your method to solve.

$$9) \begin{cases} x - 3y = -5 \\ 2x - 5y = -9 \end{cases}$$

Choose your method to solve.

$$10) \begin{cases} 2x - y = 2 \\ x = \frac{2}{3}y \end{cases}$$

